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PATTERSON	& SHERIDAN L.L.P.	RIZK, SAMIR WADIE			
595 SHREWSBURY AVE, STE 100 FIRST FLOOR			ART UNIT	PAPER NUMBER	
	SHREWSBURY, NJ 07702			2133	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/731;176	SIDENBLAD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sam Rizk	2133				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on <u>09 l</u> This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
 9) The specification is objected to by the Examination 10) The drawing(s) filed on <u>09 December 2003</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examination 	fare: a) \boxtimes accepted or b) \square object e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/16/2004,2/28/2005.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTIONS

- Claims 1-25 have been submitted for examination
- Claims 1-25 have been rejected

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 1. Claim1-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Aviani et al. US patent 6,976,085 (Hereinafter Aviani)
- 2. In regard to claim 1, Aviani teaches:
 - A method of editing outbound frames using an offload unit, comprising:

 (Note: FIG 1and col. 17, lines (48-67) through col. 18, lines (1-54) in

 Aviani)
 - receiving a delegated connection table index;

(Note: FIG. 5, reference character (302) in Aviani)

 receiving a prototype header and data for transmission from a TCP stack;

(Note: FIG. 5, reference character (300) and col. 2, lines (8-20) in Aviani)

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 accessing a delegated connection table entry using the delegated connection table index;

(Note: FIG. 5, reference characters (304) & (305) in Aviani)

 computing a TCP checksum based on a portion of the data for transmission; and

(Note: FIG. 5, reference character (307) in Aviani)

 outputting a frame including the TCP checksum, and the portion of the data for transmission.

(Note: FIG. 5, reference character (308) in Aviani)

- 3. In regard to claim 2, Aviani teaches:
 - The method of claim 1, further comprising updating the delegated connection table entry.

(Note: FIG. 5, reference character (303) in Aviani)

- 4. In reference to claim 3, Aviani teaches:
 - The method of claim 1, wherein the frame includes a received data acknowledgement number.

(Note: FIG. 1, reference character (162-1) in Aviani)

- 5. In regard to claim 4, Aviani teaches:
 - The method of claim 3, wherein the received data acknowledgement number is obtained from the delegated connection table entry.

(Note: FIG. 1, reference character (187) in Aviani)

6. In regard to claim 5, Aviani teaches:

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- The method of claim 3, wherein the received data acknowledgement number is updated when a data is received from the destination.

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(Note: FIG. 1, reference characters (162-1) & (162-1) in Aviani)

- 7. In regard to claim 6, Aviani teaches:
 - The method of claim 1, wherein the frame includes a TCP timestamp.

(Note: col. 3, lines (4-33) in Aviani)

- 8. In regard to claim 7, Aviani teaches:
 - The method of claim 6, wherein the timestamp is read from the delegated connection table entry.

(Note: FIG. 3, reference characters (144) and (187) in Aviani)

- 9. In regard to claim 8, Aviani teaches;
 - The method of claim 6, wherein the TCP timestamp is updated when data is received from the destination.

(Note: FIG. 3, reference characters (144) and (187) in Aviani)

- 10. In regard to claim 9, Aviani teaches:
 - The method of claim 1, further comprising computing an IPv4 header checksum when a delegated connection is an IPv4-based connection.

(Note: col. 1, lines (7-25) in Aviani)

- 11. In regard to claim 10, Aviani teaches:
 - The method of claim 1, further comprising:
 - accessing the connection table entry;

(Note: FIG. 3, reference character (187) in Aviani)

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computing a TCP checksum based on another portion of the data for transmission; and

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(Note: FIG. 5, reference character (307) in Aviani)

 outputting an additional frame including the TCP checksum and the other portion of the data for transmission.

(Note: FIG. 5, reference character (308) in Aviani)

- 12. In regard to claim 11, Aviani teaches:
 - The method of claim 1, wherein the application program requests
 notification when a destination has acknowledged receipt of a specific
 sequence number.

(Note: Any of Reference characters (151-1)-((155-1) in FIG 4 in Aviani)

- 13. In regard to claim 12, Aviani teaches:
 - The method of claim 1, further comprising piggybacking an acknowledgement in the frame.

(Note: Any of Reference characters (151-1)-((155-1) in FIG 4 in Aviani)

- 14. In regard to claim 13, Aviani teaches;
 - A method of producing receive data acknowledgements for output to a destination using an offload unit, comprising:

(Note: FIG. 5 in Aviani)

receiving a TCP frame from a destination connection;

(Note: FIG. 5, reference character (300) in Aviani)

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 determining the destination connection is a connection delegated for processing by the offload unit;

(Note: FIG. 3, reference character (142) in Aviani)

determining a sequence number in the TCP frame is consecutive relative to a sequence number stored in a delegated connection table;
 and updating the sequence number stored in the delegated connection table.

(Note: FIG. 4, reference characters (190)-(194) in Aviani)

- 15. In regard to claim 14, Aviani teaches:
 - The method of claim 13, further comprising:
 - determining the received sequence number is greater than a threshold; and
 - transmitting a receive data acknowledgement to the destination.

(Note: FIG. 5, reference character (308) in Aviani)

- 16. In regard to claim 15, Aviani teaches:
 - The method of claim 13, further comprising: determining a timer has expired; and
 - transmitting a receive data acknowledgement to the destination.

(Note: col. 3, lines (4-33) in Aviani)

- 17. In regard to claim 16, Aviani teaches:
 - The method of claim 13, further comprising:

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determining a count of unacknowledged received frames is greater
 than a limit; and

- transmitting a receive data acknowledgement to the destination.

(Note: FIG. 4, reference characters (190)-(194) in Aviani)

- 18. Claim 17 is rejected for the same reasons as per claim 13.
- 19. In regard to claim 18, Aviani teaches:
 - The method of claim 17, further comprising:
 - outputting a notification to the application program responsive to the notification flag value; and
 - updating at least a portion of the connection state data.

(Note: FIG. 3, reference character (187) in Aviani)

- 20. Claims 19 and 24 are rejected for the same reasons as per claim 15.
- 21. Claim 20 is rejected for the same reasons as per claim 16.
- 22. Claim 21 is rejected for the same reasons as per claim 14.
- 23. Claim 22 is rejected for the same reasons as per claim 1.
- 24. Claim 23 is rejected for the same reasons as per claim 13.
- 25. Claim 24 is rejected for the same reasons as per claim 3.

Conclusion

- 26. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Williams US publication no. 2004/0190516 teaches direct data placement.

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 Sen et al. US patent no. 6765909 teaches method and apparatus for providing support for multiple QoS levels within a third generation packet data session.

 Elzur et al. US publication 2004/0042483 teaches system and method for TCP offload.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Rizk whose telephone number is (571) 272-8191. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronics Business Center (EBC) at 866-217-9197 (toll-free)

Sam Rizk, MSEE, ABD

Examiner

CUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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